Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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Scaled data based on original data using

LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P1501937

Luminaire Tested: GSS-SB4A-835-U-T2LG-HSS

Issue Date: 07/20/2026

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2024
Report Number:	P1501937
Test Lab:	INNOVATION CENTER(G1)
Issue Date:	7/20/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGRAW-EDISON
Catalog Number:	GSS-SB4A-835-U-T2LG-HSS
Description:	GALLEON II SLIM SITE HIGH DENSITY LED ARRAYS 4SQUARE 114W 80CRI 3500K FIXTURE w/ TYPE II LOW GLARE DISTRIBUTION FIXTURE W/ HOUSE SIDE SHIELD
Light Source:	(104) 3500K CCT, 80 CRI LEDS
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	13105.9 lumens
Efficiency:	N/A
Efficacy:	115.0 lumens/watt
Luminous Opening:	Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification:	Type II - Short
BUG Rating:	B2 - U0 - G2

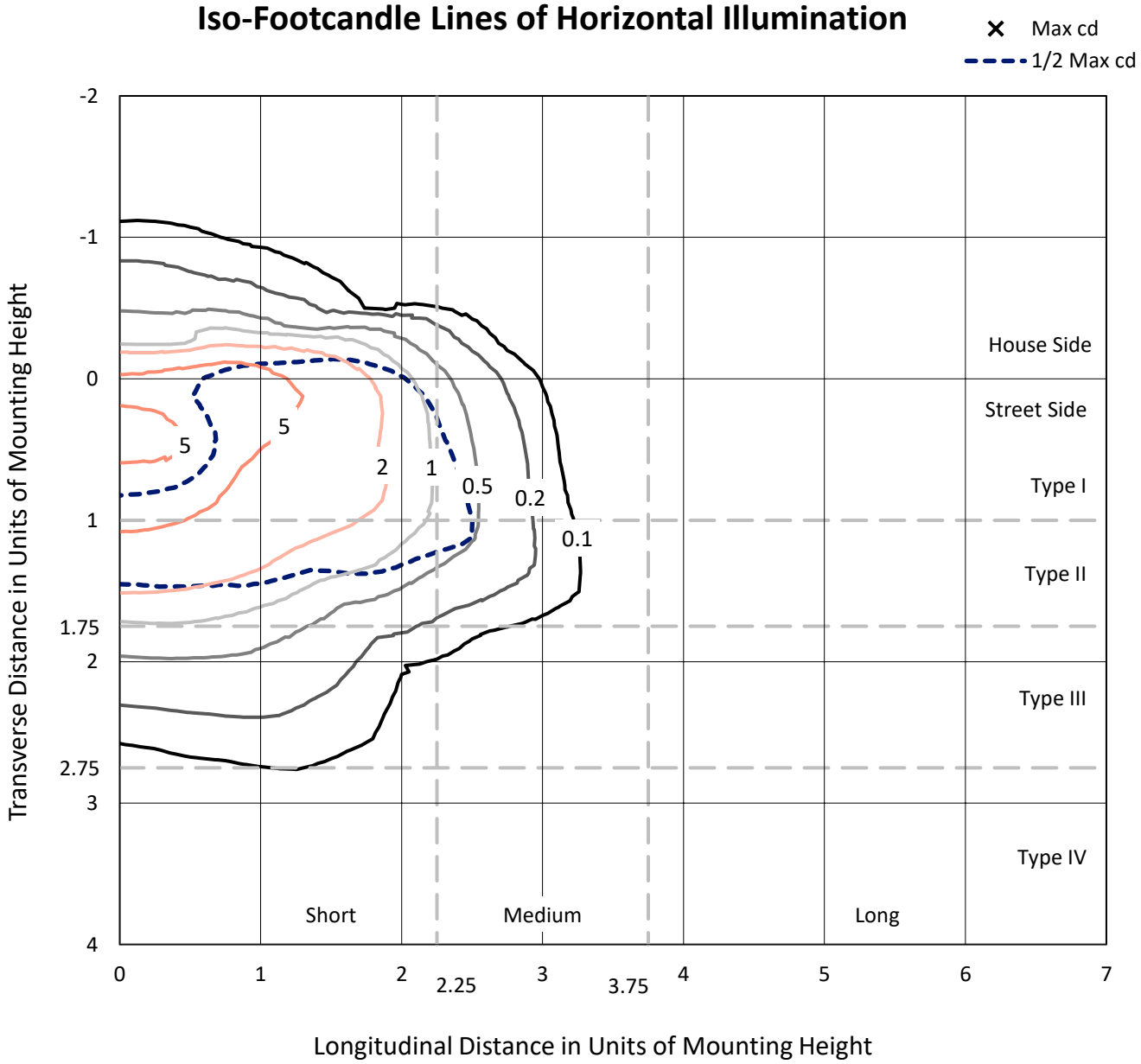
Input Watts (W):	114
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	0.98
Total Harmonic Distortion (THDi):	8.2%
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination



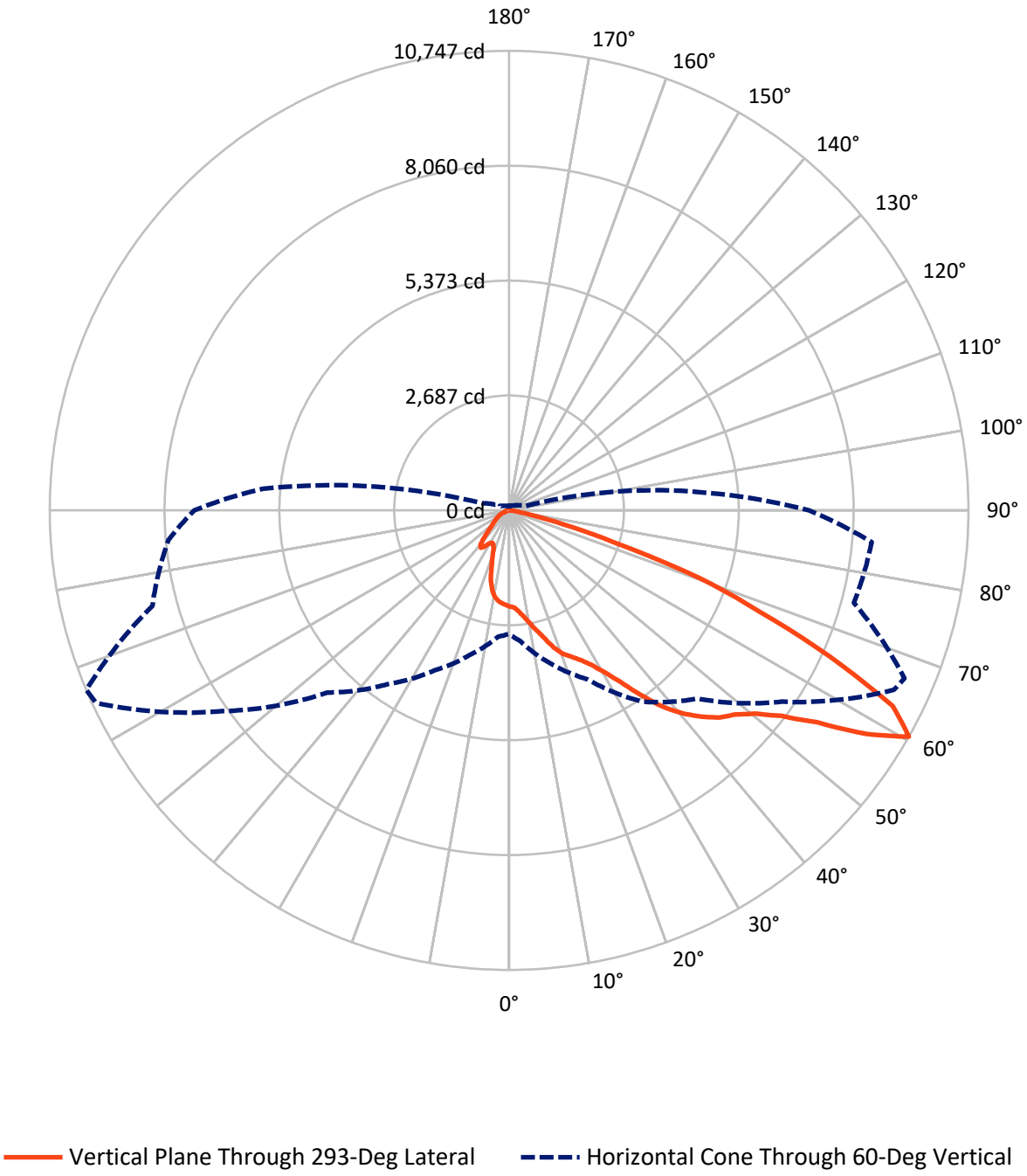
Based on 20 foot mounting height. Maximum calculated value = 9.3 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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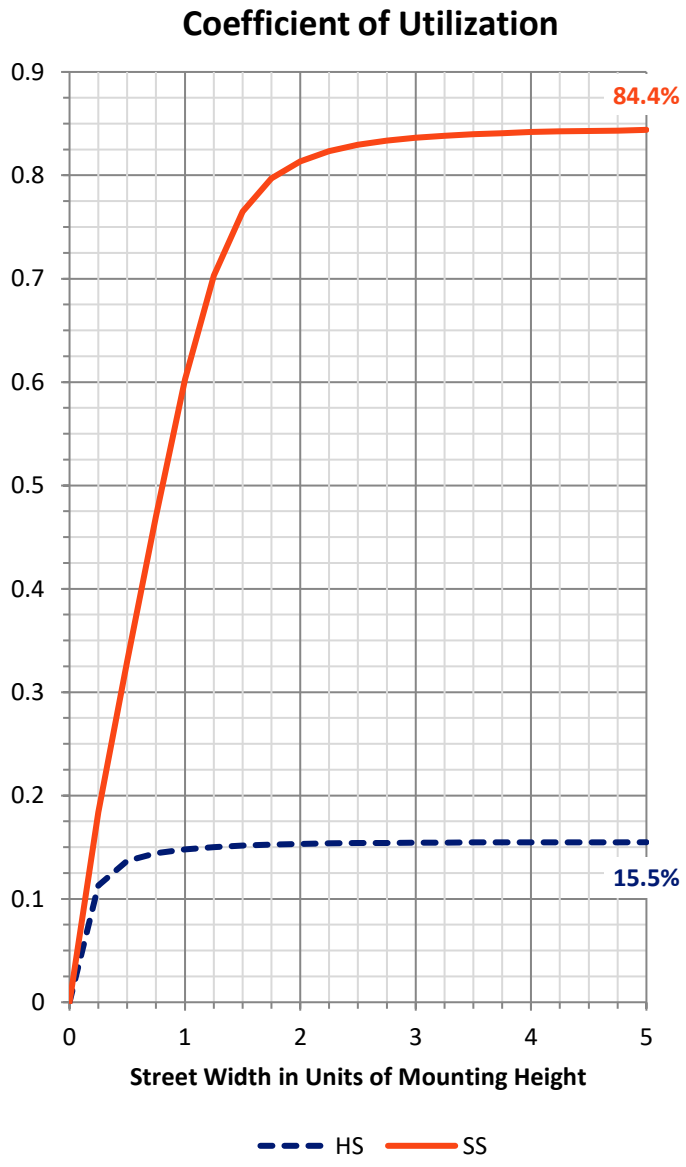
REPORT NUMBER: P1501937
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2044.8	0.0	2044.8
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	11061.1	0.0	11061.1
	% Fixture	84.4	0.0	84.4
Total	Lumens	13105.9	0.0	13105.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	1.6
10°-20°	512.3	3.9
20°-30°	956.3	7.3
30°-40°	1896.4	14.5
40°-50°	3023.5	23.1
50°-60°	3612.4	27.6
60°-70°	2368.1	18.1
70°-80°	496.1	3.8
80°-90°	37.5	0.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13105.9	100.0
0°-180°	13105.9	100.0



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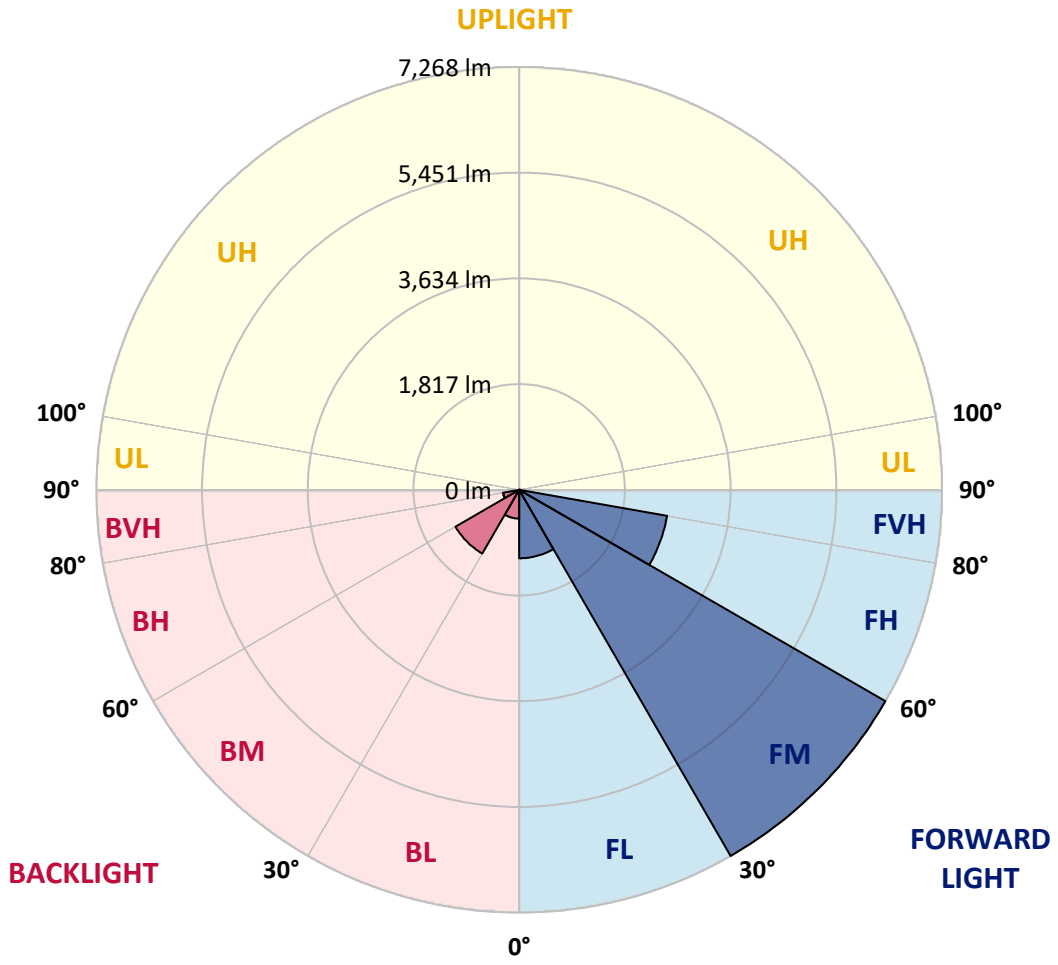
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	1177.2	9.0			
FM	(30°-60°)	7267.7	55.5			
FH	(60°-80°)	2581.8	19.7			G2/5000
FVH	(80°-90°)	34.4	0.3			G1/100
BL	(0°-30°)	494.7	3.8	B1/500		
BM	(30°-60°)	1264.5	9.6	B2/2500		
BH	(60°-80°)	282.5	2.2	B1/500		G1/500
BVH	(80°-90°)	3.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2
2.5°	2360.0	2352.7	2341.7	2345.3	2341.7	2327.0	2304.9	2286.6	2301.3	2279.3	2264.6
5°	2429.7	2429.7	2422.4	2422.4	2426.1	2418.7	2404.0	2378.4	2382.0	2363.7	2316.0
7.5°	2429.7	2418.7	2437.1	2455.4	2488.5	2506.8	2514.2	2499.5	2506.8	2470.1	2407.7
10°	2286.6	2279.3	2327.0	2396.7	2492.1	2576.6	2631.6	2635.3	2646.3	2609.6	2536.2
12.5°	1982.0	1967.3	2062.7	2194.8	2389.4	2583.9	2738.0	2796.8	2822.5	2807.8	2705.0
15°	1699.3	1717.7	1783.8	1926.9	2187.5	2484.8	2796.8	2991.3	3028.0	3046.3	2925.2
17.5°	1670.0	1673.7	1695.7	1765.4	1963.6	2323.3	2804.1	3193.2	3244.5	3325.3	3160.1
20°	1750.7	1743.4	1765.4	1787.4	1882.9	2180.2	2734.4	3387.7	3486.8	3659.3	3479.4
22.5°	1901.2	1901.2	1912.2	1926.9	1974.6	2169.1	2705.0	3567.5	3736.4	4088.7	3879.5
25°	2154.5	2125.1	2132.4	2114.1	2154.5	2301.3	2771.1	3710.7	3941.9	4565.9	4356.6
27.5°	2547.2	2558.2	2492.1	2393.0	2415.1	2539.8	2932.6	3872.2	4154.8	5061.3	4841.1
30°	3090.4	3072.0	3031.7	2837.1	2749.1	2859.2	3229.9	4136.4	4441.1	5689.0	5487.1
32.5°	3516.1	3567.5	3497.8	3362.0	3226.2	3259.2	3648.3	4562.2	4789.7	6265.2	6155.1
35°	4030.0	4030.0	4044.7	3853.8	3762.1	3754.7	4173.1	5024.6	5252.2	6786.4	6863.5
37.5°	4723.7	4676.0	4595.2	4382.3	4312.6	4404.4	4665.0	5501.8	5747.7	7208.5	7414.0
40°	5307.3	5340.3	5329.3	5021.0	4885.2	4984.3	5215.5	5909.2	6100.0	7480.1	7858.1
42.5°	5879.8	5898.2	5850.5	5703.6	5505.5	5512.8	5703.6	6217.5	6412.0	7740.7	8276.5
45°	6309.2	6305.6	6272.5	6235.8	6118.4	5997.3	6030.3	6558.8	6727.7	7825.1	8504.1
47.5°	6445.0	6474.4	6503.8	6606.5	6687.3	6496.4	6327.6	6742.3	6896.5	7810.4	8588.5
50°	6320.3	6382.7	6525.8	6679.9	6955.2	6940.5	6577.2	6940.5	7091.0	7891.1	8687.6
52.5°	6041.3	6103.7	6294.6	6573.5	6988.3	7193.8	7039.6	7274.5	7450.7	8096.7	8893.1
55°	5391.7	5417.4	5810.1	6177.1	6823.1	7083.7	7535.1	7839.8	7986.6	8346.3	9164.7
57.5°	4389.7	4452.1	4837.5	5435.7	6360.6	6793.7	7817.7	8805.1	8801.4	8584.8	9223.5
60°	*2888.5*	*3072.0*	*3699.7*	*4360.3*	*5465.1*	*6224.8*	*7799.4*	*9935.5*	*10049.3*	*8349.9*	*8515.1*
62.5°	2205.9	2282.9	2638.9	3189.5	4044.7	5160.4	7678.3	10273.2	10361.3	7718.6	7454.4
65°	1659.0	1754.4	2095.7	2587.6	2855.5	3497.8	6885.5	8929.8	9051.0	6889.2	5795.4
67.5°	1016.7	1093.7	1548.9	2125.1	2161.8	2172.8	4646.6	6764.4	6808.4	5556.8	3901.5
70°	679.0	756.1	1071.7	1633.3	1721.4	1251.6	2550.9	5120.1	5116.4	3802.4	2371.0
72.5°	392.7	429.4	679.0	1203.9	1354.3	796.5	1273.6	3255.6	3112.4	1787.4	1108.4
75°	223.9	249.6	374.4	774.4	950.6	506.5	502.8	1743.4	1541.5	921.2	605.6
77.5°	135.8	146.8	205.5	506.5	572.6	341.3	278.9	811.1	781.8	539.5	319.3
80°	66.1	77.1	124.8	297.3	367.0	183.5	168.8	319.3	341.3	297.3	168.8
82.5°	22.0	29.4	69.7	113.8	238.6	73.4	69.7	176.2	187.2	176.2	80.7
85°	11.0	14.7	33.0	36.7	91.8	36.7	25.7	77.1	95.4	58.7	33.0
87.5°	0.0	3.7	3.7	3.7	3.7	3.7	3.7	7.3	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2
2.5°	2253.6	2246.2	2231.5	2205.9	2202.2	2183.8	2154.5	2136.1	2121.4	2132.4	2136.1
5°	2293.9	2275.6	2231.5	2161.8	2088.4	2015.0	1945.3	1864.5	1809.5	1802.1	1787.4
7.5°	2367.3	2330.6	2235.2	2099.4	1912.2	1736.1	1530.5	1332.3	1233.2	1218.5	1185.5
10°	2484.8	2422.4	2264.6	1989.3	1629.6	1262.6	950.6	737.7	616.6	594.6	601.9
12.5°	2624.3	2536.2	2268.2	1802.1	1240.6	781.8	539.5	458.8	433.1	422.1	422.1
15°	2804.1	2675.6	2264.6	1559.9	836.8	502.8	433.1	400.1	389.1	381.7	381.7
17.5°	3031.7	2862.8	2238.9	1196.5	565.2	436.8	396.4	370.7	356.0	352.3	352.3
20°	3299.6	3072.0	2180.2	891.9	473.5	407.4	374.4	341.3	330.3	323.0	323.0
22.5°	3640.9	3325.3	2066.4	693.7	447.8	389.1	352.3	315.6	304.6	297.3	297.3
25°	4037.3	3648.3	1915.9	624.0	444.1	374.4	330.3	293.6	282.6	278.9	275.3
27.5°	4507.1	3993.3	1776.4	627.6	451.4	363.4	308.3	275.3	264.3	253.3	256.9
30°	5061.3	4349.3	1662.6	671.7	458.8	352.3	293.6	264.3	253.3	238.6	238.6
32.5°	5608.2	4767.7	1651.6	752.4	484.5	345.0	278.9	249.6	238.6	227.6	227.6
35°	6169.8	5149.4	1714.0	858.9	535.9	334.0	260.6	234.9	223.9	216.5	212.9
37.5°	6705.6	5454.1	1772.8	924.9	506.5	286.3	238.6	216.5	205.5	190.9	190.9
40°	7061.7	5619.2	1783.8	873.5	418.4	256.9	216.5	194.5	179.8	172.5	168.8
42.5°	7322.2	5725.7	1659.0	708.4	363.4	234.9	198.2	176.2	165.2	157.8	157.8
45°	7428.7	5689.0	1446.1	539.5	334.0	216.5	179.8	161.5	154.2	146.8	146.8
47.5°	7414.0	5520.1	1229.6	433.1	304.6	198.2	168.8	154.2	146.8	139.5	135.8
50°	7388.3	5362.3	1009.3	385.4	271.6	187.2	157.8	146.8	135.8	128.5	124.8
52.5°	7557.1	5310.9	836.8	352.3	253.3	179.8	154.2	139.5	128.5	121.1	121.1
55°	7726.0	5332.9	657.0	330.3	234.9	176.2	150.5	135.8	124.8	113.8	113.8
57.5°	7715.0	5237.5	499.2	308.3	220.2	172.5	146.8	132.1	113.8	106.4	106.4
60°	*7013.9*	*4672.3*	*389.1*	*282.6*	*201.9*	*161.5*	*135.8*	*124.8*	*106.4*	*95.4*	*95.4*
62.5°	5931.2	3674.0	319.3	249.6	179.8	146.8	124.8	113.8	95.4	77.1	77.1
65°	4382.3	2650.0	256.9	216.5	165.2	128.5	113.8	99.1	77.1	62.4	58.7
67.5°	2965.6	1629.6	205.5	179.8	146.8	110.1	95.4	84.4	69.7	51.4	47.7
70°	1758.1	866.2	150.5	124.8	110.1	80.7	80.7	73.4	58.7	44.0	40.4
72.5°	836.8	301.0	110.1	91.8	84.4	58.7	62.4	62.4	47.7	33.0	29.4
75°	425.8	146.8	73.4	66.1	55.1	44.0	51.4	47.7	33.0	22.0	22.0
77.5°	242.2	102.8	51.4	44.0	36.7	29.4	33.0	29.4	18.4	11.0	11.0
80°	135.8	73.4	33.0	29.4	22.0	18.4	18.4	14.7	11.0	3.7	3.7
82.5°	51.4	44.0	22.0	14.7	11.0	11.0	7.3	7.3	3.7	0.0	0.0
85°	22.0	11.0	11.0	7.3	7.3	3.7	3.7	3.7	0.0	0.0	0.0
87.5°	3.7	3.7	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2
2.5°	2106.8	2114.1	2121.4	2150.8	2158.1	2180.2	2198.5	2220.5	2224.2	2253.6	2253.6
5°	1816.8	1813.1	1875.5	1967.3	2026.0	2106.8	2169.1	2235.2	2271.9	2319.6	2341.7
7.5°	1203.9	1295.6	1435.1	1596.6	1805.8	2000.3	2147.1	2275.6	2363.7	2418.7	2440.7
10°	598.3	649.6	796.5	1060.7	1416.7	1813.1	2125.1	2363.7	2506.8	2569.2	2609.6
12.5°	422.1	433.1	458.8	601.9	943.3	1504.8	2055.4	2459.1	2657.3	2774.7	2826.1
15°	378.0	385.4	396.4	436.8	583.6	1123.1	1930.6	2565.5	2892.2	3028.0	3094.1
17.5°	348.7	352.3	363.4	396.4	458.8	763.4	1728.7	2679.3	3174.8	3340.0	3464.8
20°	323.0	323.0	334.0	374.4	425.8	587.2	1438.8	2807.8	3534.5	3773.1	3897.9
22.5°	293.6	301.0	308.3	352.3	414.7	535.9	1167.2	2906.9	3934.6	4224.5	4371.3
25°	271.6	278.9	286.3	330.3	403.7	535.9	1009.3	2969.3	4382.3	4727.3	4929.2
27.5°	253.3	260.6	271.6	315.6	392.7	557.9	946.9	2987.6	4870.5	5318.3	5589.9
30°	238.6	245.9	256.9	304.6	400.1	583.6	969.0	2961.9	5366.0	5927.5	6250.5
32.5°	223.9	231.2	242.2	293.6	400.1	616.6	1042.4	2910.5	5846.8	6536.8	6933.2
35°	212.9	216.5	220.2	264.3	363.4	612.9	1134.1	2859.2	6331.3	7138.7	7601.2
37.5°	190.9	194.5	201.9	227.6	290.0	557.9	1152.5	2796.8	6713.0	7645.2	8155.4
40°	168.8	176.2	183.5	209.2	242.2	451.4	1071.7	2664.6	6914.8	8034.3	8654.6
42.5°	154.2	157.8	165.2	190.9	223.9	359.7	899.2	2433.4	7094.7	8298.5	9017.9
45°	143.1	146.8	154.2	172.5	209.2	312.0	708.4	2150.8	7109.4	8383.0	9194.1
47.5°	132.1	135.8	139.5	157.8	201.9	278.9	543.2	1893.9	7105.7	8493.1	9344.6
50°	124.8	128.5	135.8	150.5	190.9	249.6	447.8	1684.7	7259.9	8731.6	9649.2
52.5°	121.1	121.1	132.1	146.8	179.8	227.6	374.4	1497.5	7340.6	8966.5	9869.4
55°	113.8	117.4	124.8	139.5	168.8	216.5	319.3	1262.6	7377.3	9084.0	9909.8
57.5°	106.4	110.1	121.1	132.1	161.5	205.5	275.3	943.3	6852.5	8471.1	9234.5
60°	*95.4*	*102.8*	*117.4*	*128.5*	*150.5*	*187.2*	*242.2*	*638.6*	*5780.7*	*7362.6*	*8001.3*
62.5°	77.1	91.8	106.4	113.8	135.8	157.8	205.5	425.8	4617.2	6092.7	6819.4
65°	58.7	77.1	88.1	99.1	113.8	132.1	172.5	290.0	3079.4	4099.7	4918.2
67.5°	51.4	66.1	73.4	80.7	95.4	113.8	139.5	201.9	1868.2	2462.8	3270.2
70°	40.4	55.1	62.4	58.7	73.4	88.1	99.1	135.8	954.3	1336.0	1860.8
72.5°	29.4	44.0	47.7	47.7	44.0	62.4	73.4	95.4	414.7	649.6	844.2
75°	22.0	29.4	33.0	29.4	25.7	40.4	51.4	62.4	271.6	389.1	491.8
77.5°	11.0	11.0	18.4	18.4	11.0	22.0	25.7	36.7	154.2	227.6	282.6
80°	3.7	0.0	0.0	3.7	0.0	7.3	11.0	18.4	80.7	121.1	176.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	40.4	36.7	91.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.3	22.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

REPORT NUMBER: P1501937
CATALOG NUMBER: GSS-SB4A-835-U-T2LG-HSS

CANDELA DISTRIBUTION (continued):

	285°	293°	295°	305°	315°	325°	335°	345°	355°	360°
0°	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2	2246.2
2.5°	2271.9	2271.9	2286.6	2308.6	2319.6	2327.0	2330.6	2338.0	2367.3	2360.0
5°	2367.3	2374.7	2385.7	2407.7	2433.4	2426.1	2426.1	2426.1	2444.4	2429.7
7.5°	2492.1	2514.2	2517.8	2543.5	2525.2	2488.5	2466.4	2433.4	2429.7	2429.7
10°	2694.0	2686.7	2686.7	2653.6	2587.6	2481.1	2385.7	2319.6	2282.9	2286.6
12.5°	2910.5	2881.2	2884.9	2763.7	2576.6	2341.7	2147.1	2004.0	1993.0	1982.0
15°	3178.5	3101.4	3086.7	2807.8	2411.4	2051.7	1860.8	1747.1	1710.4	1699.3
17.5°	3560.2	3365.7	3295.9	2730.7	2194.8	1871.9	1728.7	1677.3	1673.7	1670.0
20°	3963.9	3578.5	3446.4	2616.9	2121.4	1875.5	1769.1	1754.4	1747.1	1750.7
22.5°	4433.7	3714.3	3545.5	2635.3	2187.5	1996.6	1912.2	1901.2	1893.9	1901.2
25°	4918.2	3872.2	3663.0	2782.1	2385.7	2220.5	2121.4	2099.4	2121.4	2154.5
27.5°	5406.4	4085.0	3894.2	3072.0	2705.0	2525.2	2429.7	2510.5	2543.5	2547.2
30°	5839.4	4382.3	4206.2	3479.4	3068.4	2888.5	2906.9	3009.6	3050.0	3090.4
32.5°	6235.8	4778.7	4642.9	3941.9	3538.2	3431.7	3420.7	3497.8	3541.8	3516.1
35°	6635.9	5296.2	5164.1	4444.7	4114.4	4026.3	3934.6	4085.0	4070.4	4030.0
37.5°	7013.9	5817.4	5696.3	4984.3	4642.9	4488.8	4474.1	4609.9	4731.0	4723.7
40°	7285.5	6239.5	6092.7	5520.1	5197.1	5065.0	5142.1	5377.0	5347.6	5307.3
42.5°	7535.1	6599.2	6467.1	5989.9	5652.3	5711.0	5780.7	5938.5	5920.2	5879.8
45°	7652.6	6907.5	6793.7	6345.9	6180.8	6368.0	6364.3	6423.0	6323.9	6309.2
47.5°	7817.7	7127.7	7010.3	6665.3	6812.1	6889.2	6672.6	6610.2	6518.5	6445.0
50°	8122.4	7469.1	7351.6	7149.7	7274.5	7036.0	6771.7	6635.9	6448.7	6320.3
52.5°	8478.4	7986.6	7883.8	7803.1	7454.4	6962.6	6624.9	6379.0	6151.4	6041.3
55°	8926.2	8750.0	8676.6	8232.5	7292.9	6661.6	6265.2	5806.4	5494.4	5391.7
57.5°	9073.0	9869.4	9843.7	8302.2	6841.4	6114.7	5399.0	4778.7	4455.7	4389.7
60°	8639.9	10746.6	10654.9	8184.8	6023.0	4962.2	4125.4	3490.5	2965.6	2888.5
62.5°	8085.7	10075.0	10041.9	7593.9	4587.9	3556.5	3083.1	2488.5	2264.6	2205.9
65°	6925.9	8243.5	8258.2	6092.7	2903.2	2554.5	2532.5	1978.3	1703.0	1659.0
67.5°	5332.9	6323.9	6221.2	3831.8	1692.0	2044.4	2022.3	1446.1	1046.0	1016.7
70°	3116.1	4709.0	4543.8	1993.0	1119.4	1706.7	1556.2	1016.7	712.0	679.0
72.5°	1376.4	2591.2	2782.1	877.2	789.1	1358.0	1123.1	624.0	400.1	392.7
75°	763.4	1284.6	1343.3	381.7	554.2	965.3	679.0	348.7	227.6	223.9
77.5°	458.8	568.9	554.2	245.9	414.7	616.6	411.1	198.2	143.1	135.8
80°	256.9	260.6	220.2	179.8	245.9	345.0	231.2	124.8	66.1	66.1
82.5°	157.8	143.1	113.8	55.1	66.1	209.2	84.4	69.7	22.0	22.0
85°	66.1	44.0	29.4	11.0	25.7	55.1	29.4	33.0	11.0	11.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-10

Test Date: 10/11/2024

Luminaire Tested: GSS-SB1A-835-U-5WQ

Data in this report applies to families of products including GSS-SB1A-835-U-5WQ

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

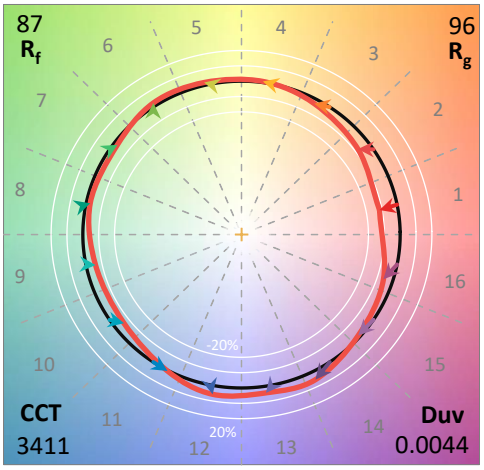
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2407-184-10
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	10/15/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	McGraw-Edison
Catalog Number:	**GSS-SB1A-835-U-5WQ**
Description:	GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 80 CRI 3500K CCT 26 LEDS

Spectral Parameters

CCT (K):	3411
CIE u':	0.2360
CIE v':	0.5189
Duv:	0.0044
CIE x:	0.4154
CIE y:	0.4059
CIE z:	0.1787
Peak Wavelength (nm):	601
Dominant Wavelength (nm):	579
Purity:	46.51914
Rf:	86.6
Rg:	95.9

CRI (Ra):	83.5
R1:	81.1
R2:	88.9
R3:	97.2
R4:	83.8
R5:	81.7
R6:	86.9
R7:	86.1
R8:	62.2
R9:	6.3
R10:	75.4
R11:	84.1
R12:	69.7
R13:	82.8
R14:	98.5
R15:	72.6



Test Conditions

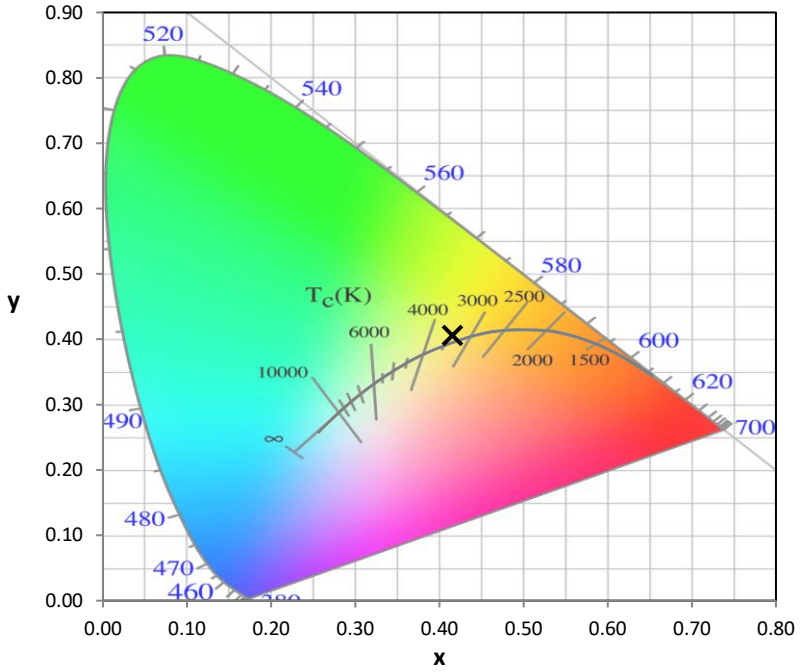
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.2

REPORT NUMBER: SP1-2407-184-10

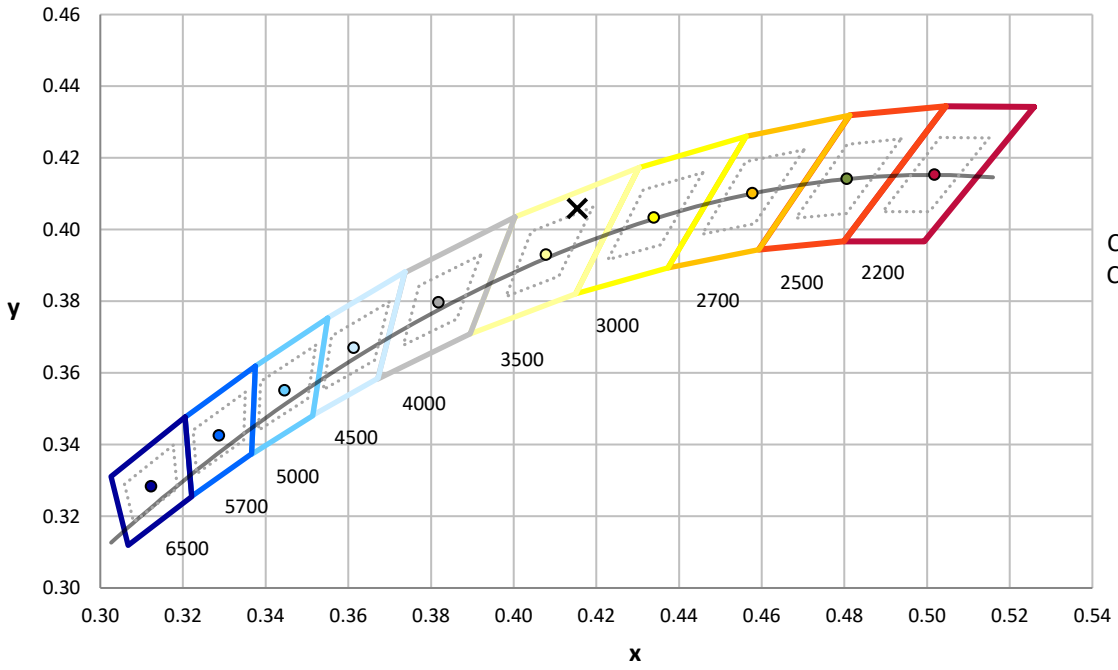
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

REPORT NUMBER: SP1-2407-184-10

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

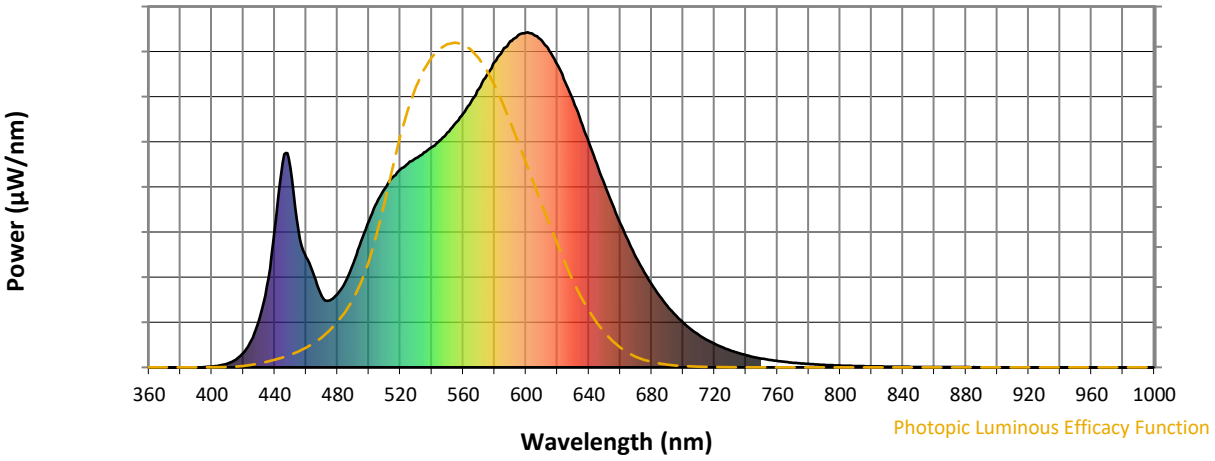


CCT = 3411K
CIE x = 0.4154
CIE y = 0.4059
Duv = 0.0044

Point lies inside the ANSI 3500K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-10

Photopic Flux vs. Wavelength

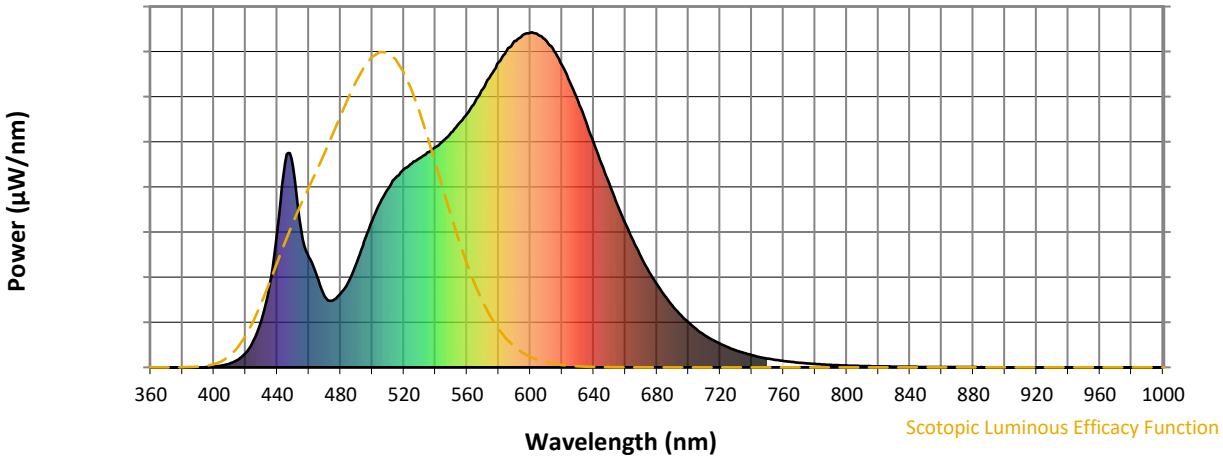


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Scotopic Flux vs. Wavelength

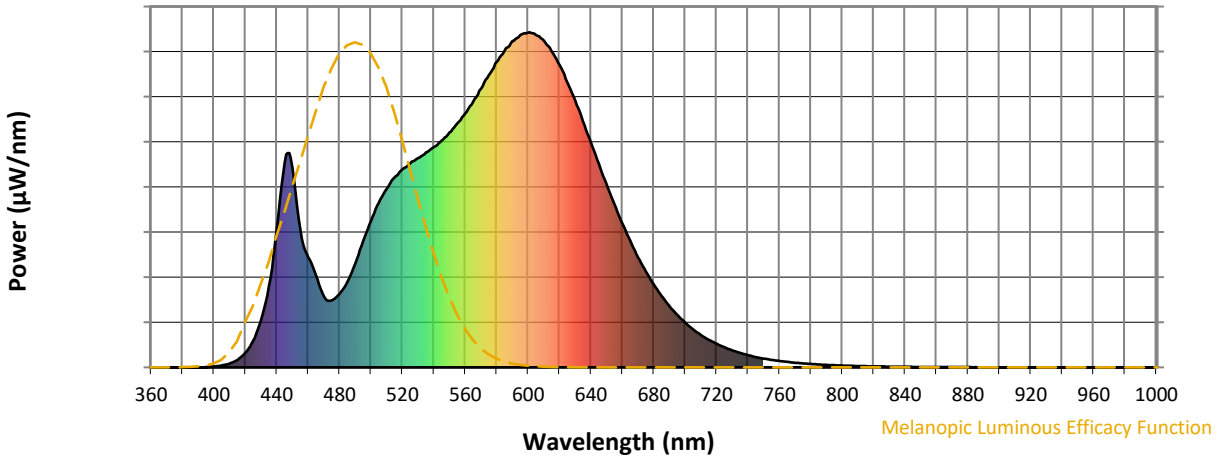


Scotopic Lumens: NR **S/P: 1.48**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

REPORT NUMBER: SP1-2407-184-10

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.88**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	311	NR	620	903	NR	750	26	NR	880	1	NR
365	0	NR	495	376	NR	625	851	NR	755	22	NR	885	1	NR
370	0	NR	500	438	NR	630	797	NR	760	19	NR	890	0	NR
375	0	NR	505	491	NR	635	735	NR	765	16	NR	895	0	NR
380	0	NR	510	533	NR	640	672	NR	770	14	NR	900	0	NR
385	0	NR	515	566	NR	645	607	NR	775	12	NR	905	0	NR
390	0	NR	520	592	NR	650	546	NR	780	10	NR	910	0	NR
395	1	NR	525	608	NR	655	487	NR	785	9	NR	915	0	NR
400	3	NR	530	625	NR	660	429	NR	790	7	NR	920	0	NR
405	6	NR	535	642	NR	665	378	NR	795	6	NR	925	0	NR
410	12	NR	540	657	NR	670	329	NR	800	5	NR	930	0	NR
415	22	NR	545	677	NR	675	286	NR	805	5	NR	935	0	NR
420	43	NR	550	701	NR	680	248	NR	810	4	NR	940	0	NR
425	80	NR	555	728	NR	685	213	NR	815	3	NR	945	0	NR
430	140	NR	560	757	NR	690	184	NR	820	3	NR	950	0	NR
435	243	NR	565	793	NR	695	156	NR	825	3	NR	955	0	NR
440	412	NR	570	831	NR	700	134	NR	830	2	NR	960	0	NR
445	610	NR	575	872	NR	705	114	NR	835	2	NR	965	0	NR
450	597	NR	580	911	NR	710	97	NR	840	2	NR	970	0	NR
455	412	NR	585	944	NR	715	83	NR	845	1	NR	975	0	NR
460	330	NR	590	974	NR	720	70	NR	850	1	NR	980	0	NR
465	274	NR	595	992	NR	725	60	NR	855	1	NR	985	0	NR
470	211	NR	600	999	NR	730	51	NR	860	1	NR	990	0	NR
475	200	NR	605	992	NR	735	43	NR	865	1	NR	995	0	NR
480	220	NR	610	975	NR	740	36	NR	870	1	NR	1000	0	NR
485	255	NR	615	944	NR	745	31	NR	875	1	NR			

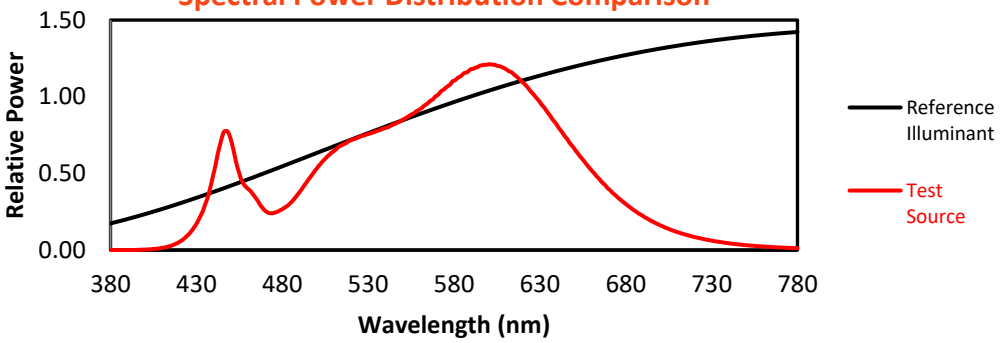
REPORT NUMBER: SP1-2407-184-10

TM-30-18

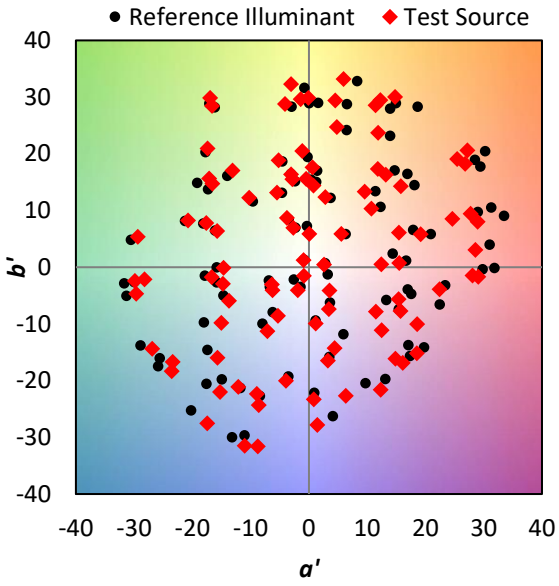
Summary

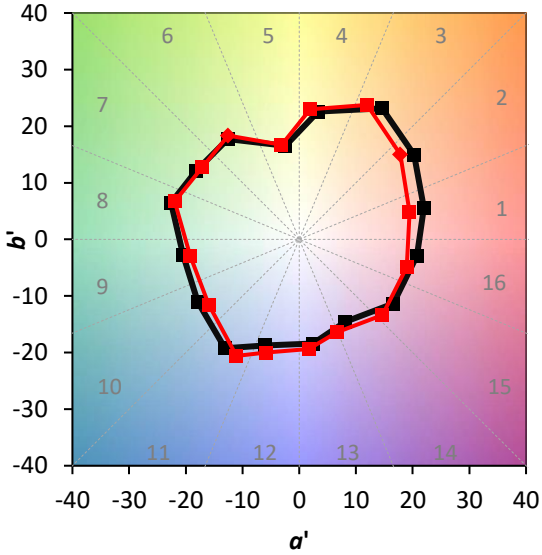
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R_g = 95.9
CIE R_a = 83.5
R_9 = 6.3

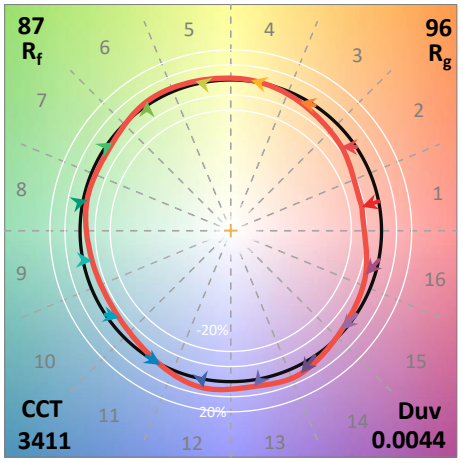
Spectral Power Distribution Comparison

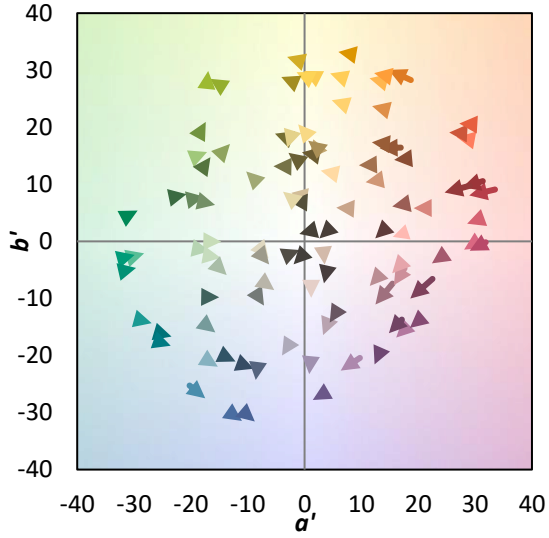


Color Vector Graphics







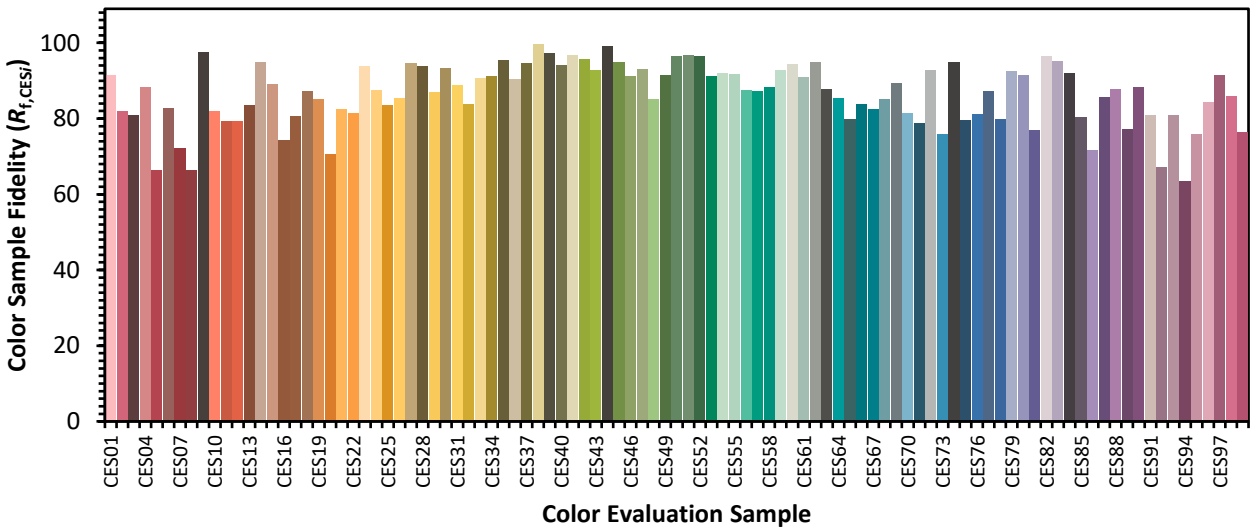


REPORT NUMBER: SP1-2407-184-10

TM-30-18

Individual Sample Fidelity Index ($R_{f,i}$)

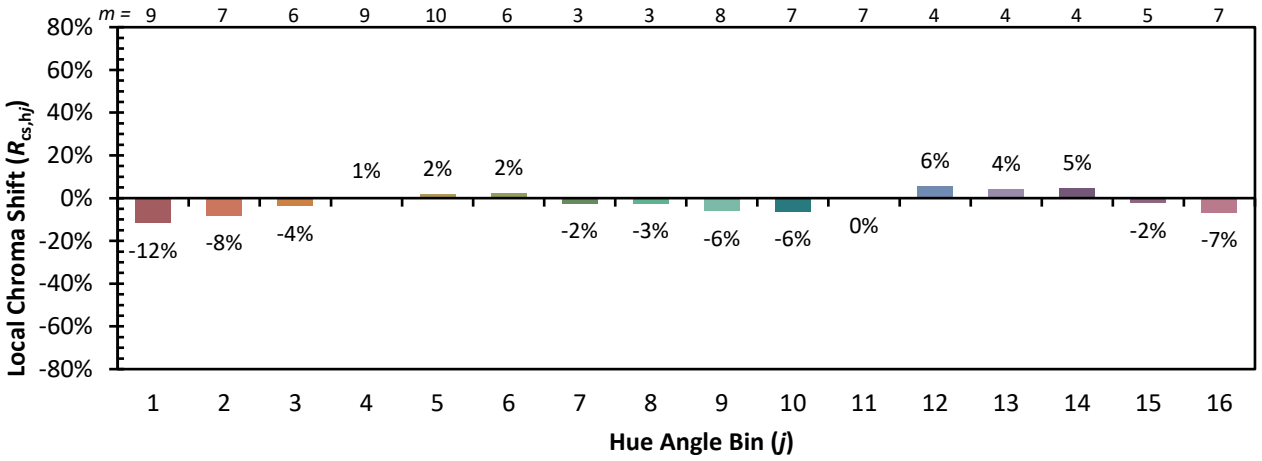
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CES02 = 62	CES27 = 95	CES52 = 96	CES77 = 87
CES03 = 31	CES28 = 94	CES53 = 91	CES78 = 80
CES04 = 70	CES29 = 87	CES54 = 92	CES79 = 93
CES05 = 49	CES30 = 93	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 89	CES56 = 88	CES81 = 77
CES07 = 41	CES32 = 84	CES57 = 87	CES82 = 96
CES08 = 40	CES33 = 91	CES58 = 88	CES83 = 95
CES09 = 29	CES34 = 91	CES59 = 93	CES84 = 92
CES10 = 75	CES35 = 95	CES60 = 94	CES85 = 80
CES11 = 58	CES36 = 90	CES61 = 91	CES86 = 72
CES12 = 64	CES37 = 95	CES62 = 95	CES87 = 86
CES13 = 43	CES38 = 100	CES63 = 88	CES88 = 88
CES14 = 74	CES39 = 97	CES64 = 85	CES89 = 77
CES15 = 71	CES40 = 94	CES65 = 80	CES90 = 88
CES16 = 47	CES41 = 97	CES66 = 84	CES91 = 81
CES17 = 49	CES42 = 96	CES67 = 82	CES92 = 67
CES18 = 56	CES43 = 93	CES68 = 85	CES93 = 81
CES19 = 72	CES44 = 99	CES69 = 89	CES94 = 63
CES20 = 66	CES45 = 95	CES70 = 81	CES95 = 76
CES21 = 86	CES46 = 91	CES71 = 79	CES96 = 84
CES22 = 78	CES47 = 93	CES72 = 93	CES97 = 92
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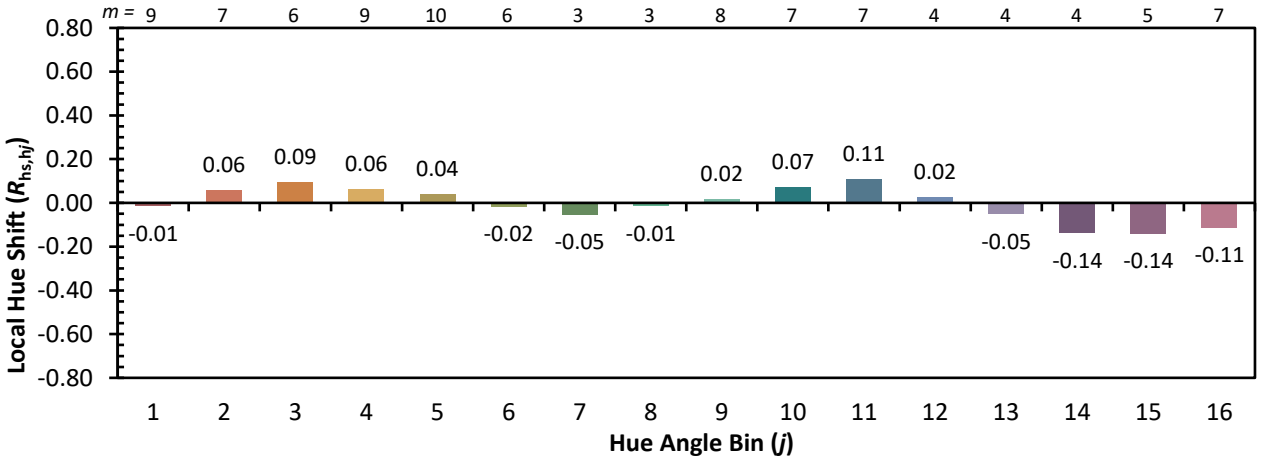


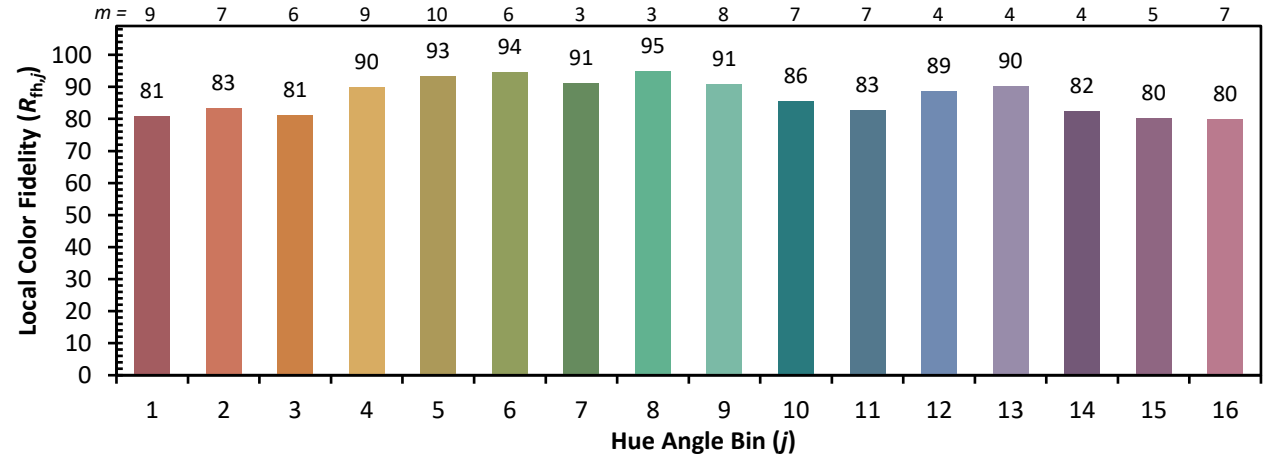
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Color Rendition by Hue-Angle Bin



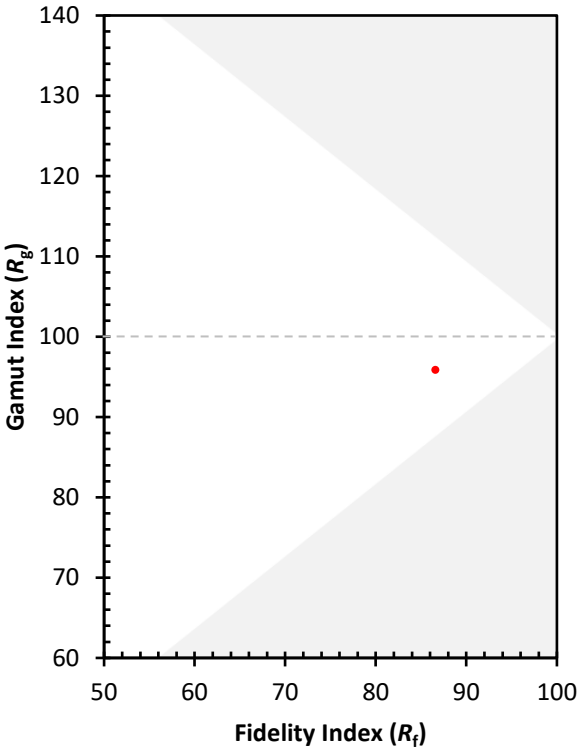


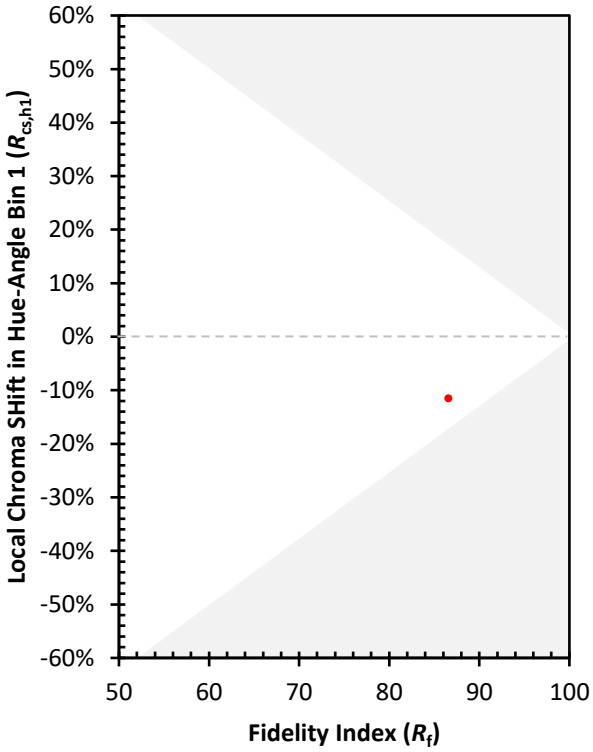


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Measure Comparisons





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